AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently amended) A multi-layered lithography structure, the structure comprising:
 - a substrate;
 - a first resist layer with a first surface coupled to said substrate, said first resist layer having a first resist open developed area;
 - [[a]] an opaque barrier layer on a second surface of said first resist with a barrier layer open developed area;
 - a second resist layer coupled to said <u>opaque</u> barrier layer, said second resist layer having a second resist open <u>developed</u> area; and wherein said first resist open <u>developed</u> area is <u>developed</u> subsequent to develop of said second resist open <u>developed</u> area.
- 2. (Currently amended) The structure of claim 1, further comprising a second opaque barrier layer on said second resist layer with a second barrier layer open developed area, and a third resist layer on said second opaque barrier layer with a third resist open developed area, wherein said second resist open developed area is developed subject to develop subsequent to develop of said third resist open developed area.
- 3. (Currently amended) The structure of claim 1, wherein said first resist open developed area, said barrier layer open developed area, and said second resist open developed area have variable patterns.
- 4. (Original) The structure of claim 1, further comprising a plurality of said structures on said substrate.

- 5. (Currently amended) The structure of claim 1, wherein said first resist open developed area, said barrier layer open developed area, and said second resist open developed area have variable sizes.
- 6. (Currently amended) The structure of claim 1, wherein said opaque barrier layer is an opaque metallic layer.
- 7. (Currently amended) The structure of claim 1, wherein said first resist layer and said second resist layer are selected from at least one of the group consisting of: azide, polymers and copolymers of polymethylmethacrylate (PMMA), and resist of SU-8.
- 8. (Original) The structure of claim 1 wherein said substrate is selected from at least one of the group consisting of: silicon, gallium arsenide, germanium, glass, and metal.
- 9. (Currently amended) A method of fabricating a multi-layer lithographic semiconductor, comprising:

applying a first resist layer to a semiconductor substrate;

masking said first resist layer and exposing said first resist layer, thereby forming a first latent image in said first resist layer;

adding [[a]] an opaque barrier layer to said first resist layer covering said first latent image;

applying a second resist layer to said opaque barrier layer;

masking said second resist layer and exposing said second resist layer, thereby forming a second latent image in said second resist layer;

removing said second latent image;

etching said opaque barrier layer; and

removing said first latent image.

- 10. (Original) The method of claim 9, further comprising preparing said substrate.
- 11. (Original) The method of claim 9, further comprising applying post-application resist treatments.
- 12. (Original) The method of claim 11, wherein said post-application resist treatments are selected from at least one of the group consisting of: softbake, hydration, and ammonia based image reversal.
- 13. (Original) The method of claim 9, wherein a shape of said first latent image and the second latent image is selected from the group consisting of: square, rectangle, triangle, circle, oval, and polygon.
- 14. (Original) The method of claim 9, wherein said etching is selected from the group consisting of wet etch, dry etch and develop/exposure.
- 15. (Original) The method of claim 9, wherein said exposing uses rays selected from at least one of the group consisting of ultraviolet light, electrons, and x-rays.
- 16. (Original) The method of claim 9, further comprising using alignment tools.
- 17. (Currently amended) The method of claim 9, further comprising adding a second opaque barrier layer on said second resist layer, applying a third resist layer on said second opaque barrier layer, masking said third resist layer and exposing said third resist layer, thereby forming a third latent image in said third resist layer, removing said third latent image, etching said second opaque barrier layer, and removing said second latent image.

18. (Currently amended) A lithographic process for fabricating multi-layer semiconductor devices, comprising:

providing a substrate;

coating a first resist layer onto said substrate;

exposing said first resist layer with a mask to form a first layer exposed area and a first layer unexposed area;

depositing [[a]] an opaque barrier layer on said first layer exposed area and said first layer unexposed area;

coating a second resist layer onto said opaque barrier layer;

exposing said second resist layer with a mask to form a second layer exposed area and a second layer unexposed area;

developing said second layer exposed area;

etching said opaque barrier layer;

developing said first layer exposed area; and

fabricating devices on said substrate.

- 19. (Original) The lithographic process according to claim 18, wherein said depositing is selected from the group consisting of: thermal evaporation, spin coating, spray coating, and electroless plating.
- 20. (Original) The lithographic process according to claim 18, wherein said step of coating is spun coating.